

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No. : To Be Assigned
Applicant : Hiroshi HIRAYAMA et al
Filed : November 17, 2003

Docket No. : 056207.50756C1
Customer No. : 23911

Title : AIR FLOW MEASURING DEVICE FORMED INTEGRALLY
WITH ELECTRONICALLY CONTROLLED THROTTLE BODY

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§ 1.56**

Sir:

In accordance with the duty of disclosure under 37 CFR §1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached Form PTO-1449 and/or listed herein and which the Examiner may deem relevant to patentability of the claims of the above-identified application.

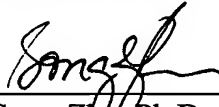
Copies of the references listed on the attached forms PTO-1449 and PTO-892 have already been provided by Applicants in the Information Disclosure Statement filed in the parent application Serial No. 10/009,638, filed December 14, 2001.

The present Information Disclosure Statement is being filed (1) no later than three months from the application's filing date or (2) before the mailing date of the first Office Action on the merits (whichever is later), and therefore no statement under 37 C.F.R. §1.97(e) or fee under 37 C.F.R. §1.17(p) is required.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

November 17, 2003

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Song Zhu", is written over a horizontal line.

Song Zhu, Ph.D.
Reg. No. 44,420
James F. McKeown
Registration No. 25,406

CROWELL & MORING, LLP
Intellectual Property Group
P.O. Box 14300
Washington, DC 20044-4300
Telephone No.: (202) 624-2500
Facsimile No.: (202) 628-8844
JFM:SZ:tlm

FORM PTO-1449 U.S. Department of Commerce Patent & Trademark Office INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>	Attorney Docket No. 381NP/50756	Serial No. To Be Assigned
	Applicant: HIRAYAMA et al.	
	Filing Date December 14, 2001	Group

U.S. PATENT DOCUMENTS							
Examiner Initial		Document Number	Date	Name	Class	Sub-Class	Filing Date (if appropriate)
	AA	5,190,012	3/1993	Takahashi			1/15/1992
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						

FOREIGN PATENT DOCUMENTS								
Examiner Initial		Document Number	Date	Name	Class	Sub-Class	TRANSLATION	
							Yes	No
	AK	1247723	10/1989	Japan			Abstract	
	AL	11044265	2/1999	Japan			Abstract	
	AM	2275041	11/1990	Japan			Abstract	
	AN	4265448	9/1992	Japan			Abstract	
	AO	4262031	9/1992	Japan			Equivalent of U.S. Patent 5,190,012	
	AP	63272933	11/1988	Japan			Abstract	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
	AQ						
	AR						
	AS						

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

FORM PTO-1449 U.S. Department of Commerce Patent & Trademark Office INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>	Attorney Docket No. 381NP/50756	Serial No. To Be Assigned
	Applicant: HIRAYAMA et al.	
	Filing Date December 14, 2001	Group

U.S. PATENT DOCUMENTS							
Examiner Initial		Document Number	Date	Name	Class	Sub-Class	Filing Date (if appropriate)
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						

FOREIGN PATENT DOCUMENTS								
Examiner Initial		Document Number	Date	Name	Class	Sub-Class	TRANSLATION	
							Yes	No
	AK	6146989	5/1994	Japan			Abstract	
	AL	5059994	3/1993	Japan			Abstract	
	AM	7279724	10/1995	Japan			Abstract	
	AN	8285651	11/1996	Japan			Abstract	
	AO	1290948	11/1989	Japan			Abstract	
	AP	5346336	12/1993	Japan			Abstract	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
	AQ						
	AR						
	AS						

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

FORM PTO-1449 U.S. Department of Commerce Patent & Trademark Office	Attorney Docket No. 381NP/50756	Serial No. To Be Assigned
Applicant: HIRAYAMA et al.		
INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>	Filing Date December 14, 2001	Group

U.S. PATENT DOCUMENTS							
Examiner Initial		Document Number	Date	Name	Class	Sub-Class	Filing Date (if appropriate)
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						

FOREIGN PATENT DOCUMENTS								
Examiner Initial		Document Number	Date	Name	Class	Sub-Class	TRANSLATION	
							Yes	No
	AK	1224429	9/1989	Japan			Abstract	
	AL	5086934	4/1993	Japan			Abstract	
	AM	4350338	12/1992	Japan			Abstract	
	AN							
	AO							
	AP							

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
	AQ						
	AR						
	AS						

EXAMINER EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.	DATE CONSIDERED
--	------------------------

Notic of References Cited

Application/Control No.

10/009,638

Applicant(s)/Patent Under
Reexamination
HIRAYAMA ET AL.

Examiner

Erick R Solis

Art Unit

3747

Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-4,723,443	02-1988	Usui et al.	73/118.2
*	B	US-RE34,403	10-1993	Arai et al.	73/118.2
*	C	US-5,325,712	07-1994	Tsutsui et al.	73/118.2
*	D	US-6,170,475	01-2001	Lewis et al.	73/118.2
*	E	US-6,435,023	08-2002	Kobayashi et al.	73/118.2
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

J013 Rev. 11/01 14 Dec 2001

FORM PTO-1349 U.S. Department of Commerce Patent & Trademark Office INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>	Attorney Docket No. 381NP/50756	Serial No. To Be Assigned
	Applicant: HIRAYAMA et al.	
	Filing Date December 14, 2001	Group

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-Class	Filing Date (if appropriate)
ES	AA	5,190,012	3/1993	Takahashi	123	477	1/15/1992
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-Class	TRANSLATION	
							Yes	No
ES	AK	1247723	10/1989	Japan			Abstract	
ES	AL	11044265	2/1999	Japan			Abstract	
ES	AM	2275041	11/1990	Japan			Abstract	
ES	AN	4265448	9/1992	Japan			Abstract	
ES	AO	4262031	9/1992	Japan			Equivalent of U.S. Patent 5,190,012	
ES	AP	63272933	11/1988	Japan			Abstract	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

	AQ					
	AR					
	AS					

EXAMINER

Eish S. Lin

DATE CONSIDERED 9/4/2003

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

301816

FORM PTO-1449 U.S. Department of Commerce Patent & Trademark Office INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>	Attorney Docket No. 381NP/50756	Serial No. To Be Assigned
	Applicant: HIRAYAMA et al.	
	Filing Date December 14, 2001	Group

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-Class	Filing Date (if appropriate)
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-Class	TRANSLATION	
							Yes	No
ES	AK	6146989	5/1994	Japan			Abstract	
ES	AL	5059994	3/1993	Japan			Abstract	
ES	AM	7279724	10/1995	Japan			Abstract	
ES	AN	8285651	11/1996	Japan			Abstract	
ES	AO	1290948	11/1989	Japan			Abstract	
ES	AP	5346336	12/1993	Japan			Abstract	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

	AQ						
	AR						
	AS						

EXAMINER

Erich Slin

DATE CONSIDERED

9/4/2003

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.